

ABSTRACT

A sensing apparatus with a connector, a sensor lead and a sensor module with a spacer placed over electrodes that have been deposited on a substrate. The spacer may have a space for receiving an enzyme. End portions of the sensor module may be encapsulated, such as with molded beads. A sensor lead may attach to the sensor module and may have an outer tubing that passes over the module and attaches to the beads at the end of the sensor module. The sensor lead may also attach to the connector such that the sensing apparatus may be electrically coupled to a pump, electronics or other devices. The sensing apparatus may be implanted into a vein or artery.